

STN Columbus

* * * * * Welcome to STN International * * * * *

NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3 Feb 24	PCTGEN now available on STN
NEWS	4 Feb 24	TEMA now available on STN
NEWS	5 Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6 Feb 26	PCTFULL now contains images
NEWS	7 Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8 Mar 24	PATDPAFULL now available on STN
NEWS	9 Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10 Apr 11	Display formats in DGENE enhanced
NEWS	11 Apr 14	MEDLINE Reload
NEWS	12 Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13 SEP 09	CA/Caplus records now contain indexing from 1907 to the present
NEWS	14 Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15 Apr 28	RDISCLOSURE now available on STN
NEWS	16 May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17 May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18 May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	19 May 19	Simultaneous left and right truncation added to WSCA
NEWS	20 May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21 Jun 06	Simultaneous left and right truncation added to CBNE
NEWS	22 Jun 06	PASCAL enhanced with additional data
NEWS	23 Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24 Jun 25	HSDB has been reloaded
NEWS	25 Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26 Jul 21	Identification of STN records implemented
NEWS	27 Jul 21	Polymer class term count added to REGISTRY
NEWS	28 Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29 AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30 AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31 AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32 AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33 AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34 AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35 AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36 AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	37 AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS	38 AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS EXPRESS	April 4	CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS INTER		General Internet Information

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NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 11:33:23 ON 12 SEP 2003

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 11:33:39 ON 12 SEP 2003

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FILE COVERS 1907 - 12 Sep 2003 VOL 139 ISS 11

FILE LAST UPDATED: 10 Sep 2003 (20030910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (calcium and sodium and potassium) (p) nitrate

PROXIMITY OPERATION NOT ALLOWED

Certain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However,

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'((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.

=> s nitrate (p) (calcium and sodium and potassium)
 PROXIMITY OPERATION NOT ALLOWED
 Certain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However, '((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.

```
=> s (calcium and sodium and potassium)
      659393 CALCIUM
      31 CALCIUMS
      659396 CALCIUM
            (CALCIUM OR CALCIUMS)
      900112 SODIUM
      33 SODIUMS
      900121 SODIUM
            (SODIUM OR SODIUMS)
      518018 POTASSIUM
      15 POTASSIUMS
      518020 POTASSIUM
            (POTASSIUM OR POTASSIUMS)
L1      59906 (CALCIUM AND SODIUM AND POTASSIUM)
```

```
=> s l1 and nitrate
      209718 NITRATE
      67535 NITRATES
      245574 NITRATE
            (NITRATE OR NITRATES)
L2      9291 L1 AND NITRATE
```

```
=> s l1 (p) nitrate
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L1 (P) NITRATE'
      209718 NITRATE
      67535 NITRATES
      245574 NITRATE
            (NITRATE OR NITRATES)
L3      9291 L1 (P) NITRATE
```

```
=> s l3 and (briquet? or charcoal or barbequ?)
      17513 BRIQUET?
      42860 CHARCOAL
      1664 CHARCOALS
```

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43091 CHARCOAL

(CHARCOAL OR CHARCOALS)

18 BARBEQU?

L4 51 L3 AND (BRIQUET? OR CHARCOAL OR BARBEQU?)

=> d l4 1-61 ti

L4 ANSWER 1 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Apparatus for substantial removal of organic substance(s) and/or nitrogen source(s) from an aqueous medium

L4 ANSWER 2 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Characterization and classification of solid waste "PO DO BALAO", produced by merchant pig iron industry which use charcoal as energy source in Brazil: case study of Sete Lagoas region, state of Minas Gerais

L4 ANSWER 3 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Gasification reactivity of charcoal with CO₂. Part II: Metal catalysis as a function of conversion

L4 ANSWER 4 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Slow-release solid-chemical composition and method for anaerobic bioremediation

L4 ANSWER 5 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Removal of colour from effluent of petrochemical industry by flyash and other agents

L4 ANSWER 6 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Efficient energy-saving quickly-ignited honeycomb-shaped fuel **briquets**

L4 ANSWER 7 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Culture medium composition useful for induction and proliferation of *Taxus calli*

L4 ANSWER 8 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Critical evaluation of a simple arsenic removal method for groundwater of Bangladesh

L4 ANSWER 9 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Agents and their manufacture for prevention of phosphorus elution from bottom sediments

L4 ANSWER 10 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Method for producing lactic acid

L4 ANSWER 11 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Raw materials of Venetian glassmakers as recorded in formulation books from the 14th century to the first half of the 20th century. Part II. List of primary and secondary raw materials and semifinished products

L4 ANSWER 12 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Agent for removal of soot and tar from chimneys

L4 ANSWER 13 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Preparation of energy-saving quickly-burning pollution-free honeycomb coal **briquet**

L4 ANSWER 14 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Reaction agent for decomposition of hardly decomposable organic chlorides and decomposition method using the agent

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L4 ANSWER 15 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Manufacture of high-energy waterproof color **briquet**

L4 ANSWER 16 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Manufacture of sulfur-fixing and waterproof honeycomb-shaped **briquets**

L4 ANSWER 17 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Combustible energy-saving honeycomb-shaped **briquet**

L4 ANSWER 18 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Manufacture of clean coal with anthracite and bituminous coal

L4 ANSWER 19 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Report: chemical evaluation of waste produced by a Jordanian university: a case study

L4 ANSWER 20 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Treatment and recirculation of wash waters containing surfactants from laundries

L4 ANSWER 21 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Combustion improvers for various kinds of coal

L4 ANSWER 22 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Physical properties of water exposed to the electric field

L4 ANSWER 23 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Preparation of special fuel for diner car of passenger train

L4 ANSWER 24 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Chlorine-free flux compositions for molten aluminum and aluminum alloys for removing hydrogen gas and nonmetallic inclusions

L4 ANSWER 25 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Study of fouling of reverse osmosis membranes used to produce water for hemodialysis

L4 ANSWER 26 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI High-heat energy bionic coal composition and its manufacture

L4 ANSWER 27 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Purification of sulfur hexafluoride

L4 ANSWER 28 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Carbonaceous combustible material

L4 ANSWER 29 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Cesium and antimony behavior in water and forest soil after the Chernobyl accident

L4 ANSWER 30 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Coal **briquets** synergist and **briquets** contained synergist and their manufacturing method

L4 ANSWER 31 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Method for cleaning of aluminum alloy smelting furnace and cleaning agent

L4 ANSWER 32 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Oxidative dehydrogenation of ethylbenzene with carbon dioxide

L4 ANSWER 33 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Status of certain additional over-the-counter drug category II and III

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active ingredients

- L4 ANSWER 34 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Benzylic oxidation and catalyst therefor
- L4 ANSWER 35 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Binary eutectics of acetamide with inorganic **nitrates**: thermophysical properties relevant for heat storage
- L4 ANSWER 36 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative
- L4 ANSWER 37 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI The effect of hot spots on burning surface and its application to strobe light formation with mixtures which contain no ammonium perchlorate
- L4 ANSWER 38 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Manufacture of hydraulic cementitious compositions by low-temperature nonaqueous sol-gel technique
- L4 ANSWER 39 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Manufacture of hydraulic cementitious compositions by low-temperature aqueous sol-gel technique
- L4 ANSWER 40 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Waters of Tarragon: problems with taste and odor
- L4 ANSWER 41 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Water-resistant ammonium **nitrate**-fuel oil blasting agents with particulated additives
- L4 ANSWER 42 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Characteristics of the combustion and degradation of heterogeneous lignite mixtures with **nitrates**
- L4 ANSWER 43 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Studies on removal of malathion from water by means of activated **charcoal**
- L4 ANSWER 44 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Inorganic clay-containing coal **briquettes** and methods for production thereof
- L4 ANSWER 45 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Sintered metallic bodies composed of powder particles partly dispersion-strengthened
- L4 ANSWER 46 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Thermal treatment of drawn metal, especially of a steel wire rod
- L4 ANSWER 47 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Recovering niobium and tantalum from tin-smelting slag
- L4 ANSWER 48 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI The effect of hydrogen adsorbed on silica gel and quartz on the adsorption of electrolytes
- L4 ANSWER 49 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
TI Pyrolysis and combustion of cellulose in the presence of inorganic salts
- L4 ANSWER 50 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

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TI The pharmacology of activated charcoal. I. Adsorption power of charcoal in aqueous solutions

L4 ANSWER 51 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

TI Inner adsorption in crystalline salts

=> f stnguide

L5 1 STNGUIDE

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.78	34.99

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LAST RELOADED: Sep 5, 2003 (20030905/UP).

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	35.47

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FILE COVERS 1907 - 12 Sep 2003 VOL 139 ISS 11
FILE LAST UPDATED: 10 Sep 2003 (20030910/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l4 6 13 16 17 18 21 28 30 42 44 all

L4 ANSWER 6 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2002:446229 CAPLUS

DN 136:404116

TI Efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets

IN Yang, Ke

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.

CODEN: CNXXEV

STN Columbus

DT Patent
LA Chinese
IC ICM C10L005-04
CC 51-24 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1312352	A	20010912	CN 2001-109725	20010323
PRAI	CN 2001-109725		20010323		
AB	The fuel briquets are manufd. from mixts. contg. white coal 27.22-31.00, firewood coal 27.22-31.00, brown soil 27.22-31.00, Bituminous coal 5.7-7.14, calcined lime 2.14-3.22, KNO3 0.004-0.005, KClO3 0.004-0.005, industrial salt 0.004-0.005, and water 3.30-3.82 wt.%. The fuel briquets has high heating value and reduces noxious emissions.				
ST	fuel briquet manuf bituminous coal				
IT	Fuel briquets (coal; in prodn. of efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				
IT	Air pollution (control; efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				
IT	Coal treatment Fuel additives (efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				
IT	Bituminous coal RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				
IT	1305-78-8, Calcium oxide, uses 1310-73-2, Sodium hydroxide, uses 14314-27-3, Potassium chlorite RL: MOA (Modifier or additive use); USES (Uses) (efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				
IT	3811-04-9, Potassium chlorate 7757-79-1, Potassium nitrate, uses RL: MOA (Modifier or additive use); USES (Uses) (in prodn. of efficient energy-saving quickly-ignited honeycomb-shaped fuel briquets)				

L4 ANSWER 13 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2000:854409 CAPLUS
DN 133:364343
TI Preparation of energy-saving quickly-burning pollution-free honeycomb coal **briquet**
IN Du, Zhengtao
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV

DT Patent
LA Chinese
IC ICM C10L009-10
CC 51-19 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1250802	A	20000419	CN 1998-112676	19981013
PRAI	CN 1998-112676		19981013		
AB	The raw material is composed of KClO3 0.5-5, KNO3 0.5-2, NaCl 0.02-0.05, Fe2O3 0.05-2, puffing substance (sawdust or rice bran) 0.5-5, CaCO3 1-8,				

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and coal 78-97 wt.%. The process comprises dissolving KClO₃, KNO₃, NaCl and Fe₂O₃ in warm H₂O to obtain a soln., and mixing puffing substance, CaCO₃, yellow soil and coal while spraying the soln. on them. The product is energy-saving and pollution-free.

ST honeycomb coal **briquet** puffing **potassium** chlorate

IT Rice (Oryza sativa)
Rice (Oryza sativa)
(bran; prepn. of energy-saving quickly-burning pollution-free honeycomb coal **briquet**)

IT Coal treatment
Fuel **briquets**
Sawdust
(prepn. of energy-saving quickly-burning pollution-free honeycomb coal **briquet**)

IT Coal, uses
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(prepn. of energy-saving quickly-burning pollution-free honeycomb coal **briquet**)

IT Bran
Bran
(rice; prepn. of energy-saving quickly-burning pollution-free honeycomb coal **briquet**)

IT 471-34-1, **Calcium** carbonate, uses 1309-37-1, Iron oxide (Fe₂O₃), uses 3811-04-9, **Potassium** chlorate 7647-14-5, **Sodium** chloride, uses 7757-79-1, **Potassium** nitrate, uses
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(prepn. of energy-saving quickly-burning pollution-free honeycomb coal **briquet**)

L4 ANSWER 16 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2000:493828 CAPLUS

DN 133:76517

TI Manufacture of sulfur-fixing and waterproof honeycomb-shaped **briquets**

IN Hao, Aimin; Li, Xinsheng; Yong, Yongwei

PA Shanxi Institute of Coal Chemistry, Chinese Academy of Sciences, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM C10L005-04

CC 51-24 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CN 1223294	A	19990721	CN 1997-120946	19971115
	CN 1075552	B	20011128		
PRAI	CN 1997-120946		19971115		

AB The **briquet** is manufd. from anthracite powder 40-80, silt coal 10-40, gangue 10-30, clay 4-20, S-fixing agent 4-15, catalyst 0.1-3, combustion improver 0.1-1, and auxiliary agent 0.1-3 wt.%. The S-fixing agent is Ca compd., such as lime, carbide slags, etc. The combustion improver is **nitrate**, MnO₂, KMnO₄, or NaCl. The catalyst is Na₂CO₃ or NaOH. The auxiliary agent is MgO, Al₂O₃, magnesia mineral, etc. The mol ratio of Ca in S-fixing agent to S in coal is 1.5-3.5:1.

ST **briquet** sulfur fixing waterproof prepn

IT Lime (chemical)

RL: MOA (Modifier or additive use); USES (Uses)

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(S-fixing agent; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT Coal, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (fines; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT Coal, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (ganges or silt; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT Fuel **briquets**
 Slags
 (manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT Anthracite
 Clays, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 1305-62-0, Hydrated lime, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (S-fixing agent; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 497-19-8, Sodium carbonate, uses 1310-73-2, Sodium hydroxide, uses
 RL: CAT (Catalyst use); USES (Uses)
 (catalyst; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 1313-13-9, Manganese dioxide, uses 7631-99-4, Sodium nitrate, uses 7647-14-5, Sodium chloride, uses 7722-64-7, Potassium permanganate 7757-79-1, Potassium nitrate, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (combustion improver; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 7697-37-2D, Nitric acid, salts, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (combustion improvers; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 1309-48-4, Magnesia, uses 1344-28-1, Alumina, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

IT 75-20-7, Calcium carbide
 RL: MOA (Modifier or additive use); USES (Uses)
 (slags, S-fixing agent; manuf. of sulfur-fixing and waterproof honeycomb-shaped **briquets**)

L4 ANSWER 17 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2000:443640 CAPLUS
 DN 133:32607
 TI Combustible energy-saving honeycomb-shaped **briquet**
 IN Zhang, Xuezheng
 PA Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese

STN Columbus

IC ICM C10L005-04

CC 51-17 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1229842	A	19990929	CN 1998-110121	19980325
PRAI	CN 1998-110121		19980325		
AB	The briquet is manufd. by mixing coal 800-1200, NaNO ₃ 0.5-2, KMnO ₄ 0.1-2, CaO 20-40, NaCl 0.5-3, metaformaldehyde 0.5- 2, vegetable stalk 200-400, and yellow earth 400-600 parts to obtain the combustion layer of the lower part of the briquet ; mixing coal 800-1200, KMnO ₄ 0.1-2, CaO 20-40, metaformaldehyde 0.5-2, poly(ethylene glycol) 0.3-3, vegetable stalk 200-400, and yellow earth 400-600 parts to obtain the ignition layer of the upper part. Both the lower and upper parts are then undergone extrusion and molding to form honeycombed briquet .				
ST	honeycomb coal briquet manuf				
IT	Fuel briquets Stem (combustible energy-saving honeycomb-shaped briquet)				
IT	Polyoxyalkylenes, uses Polyoxymethylenes, uses RL: NUU (Other use, unclassified); USES (Uses) (combustible energy-saving honeycomb-shaped briquet)				
IT	Coal, uses RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses) (combustible energy-saving honeycomb-shaped briquet)				
IT	Soils (yellow earth; combustible energy-saving honeycomb-shaped briquet)				
IT	1305-78-8, Calcium oxide, uses 7631-99-4, Sodium nitrate, uses 7647-14-5, Sodium chloride, uses 7722-64-7, Potassium permanganate 25322-68-3, Polyethylene glycol RL: NUU (Other use, unclassified); USES (Uses) (combustible energy-saving honeycomb-shaped briquet)				

L4 ANSWER 18 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2000:304426 CAPLUS

DN 132:296020

TI Manufacture of clean coal with anthracite and bituminous coal

IN Chen, Changzhang; Gao, Dongshou; Lin, Zhoubin; Li, Ding

PA Fujian Institute of Research On Structure of Matter, Chinese Academy of Sciences, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM C10L005-04

CC 51-17 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1211613	A	19990324	CN 1997-115876	19970912
PRAI	CN 1997-115876		19970912		
AB	The clean coal is composed of coal powder of anthracite and bituminous coal 100, industrial waste liq. 10-50 (or red clay 5-30), and multifunctional cleanser 0.5-5 wt. parts. The cleanser is composed of six or more components selected from Fe compd. or Fe org. compd. (ferrocene) 0-10, Cu compd. or Cu org. compd. 0-20, Mn compd. or Mn org. compd. 0-20, CaF ₂ 0-30, NaNO ₃ 0-20, MgCO ₃ 0-20, CaO 0-30, rare earth complex 0-10,				

STN Columbus

CaCl₂ 0-30, urea or its derivs. 0-20, Na peroxycarbonate 0- 10, cyanuric acid or its derivs. 0-20, KNO₃ 0-20, and Na₂CO₃ 0-30 wt.%. The process comprises mixing, pulverizing to particle size of ~1 mm, and forming by cold-press method; or mixing, and stirring for 5 min by cement grout mixer to obtain ball-shaped coal with diam. of 2-5 cm.

ST anthracite bituminous coal treatment

IT Pulping liquors, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (black; manuf. of clean coal with anthracite and bituminous coal)

IT Coal treatment
 (cleaning; manuf. of clean coal with anthracite and bituminous coal)

IT Wastewater
 (industrial; manuf. of clean coal with anthracite and bituminous coal)

IT Fuel **briquets**
 (manuf. of clean coal with anthracite and bituminous coal)

IT Rare earth complexes
 RL: MOA (Modifier or additive use); USES (Uses)
 (manuf. of clean coal with anthracite and bituminous coal)

IT Anthracite
 Bituminous coal
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (manuf. of clean coal with anthracite and bituminous coal)

IT Clays, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (red; manuf. of clean coal with anthracite and bituminous coal)

IT 57-13-6, Urea, uses 57-13-6D, Urea, derivs., uses 102-54-5, Ferrocene 108-80-5, Cyanuric acid 108-80-5D, Cyanuric acid, derivs. 497-19-8, Sodium carbonate, uses 546-93-0, Magnesium carbonate 1305-78-8, Calcium oxide, uses 4452-58-8, Sodium peroxycarbonate 7439-96-5D, Manganese, compds., uses 7440-50-8D, Copper, compds., uses 7631-99-4, Sodium nitrate, uses 7757-79-1, Potassium nitrate, uses 7789-75-5, Calcium fluoride, uses 10043-52-4, Calcium chloride, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (manuf. of clean coal with anthracite and bituminous coal)

L4 ANSWER 21 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2000:26047 CAPLUS

DN 132:52244

TI Combustion improvers for various kinds of coal

IN Zhang, Siheng

PA Peop. Rep. China

SO Faming Zhuangli Shenqing Gongkai Shuomingshu, 4 pp.
 CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM C10L009-10

CC 51-18 (Fossil Fuels, Derivatives, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1172151	A	19980204	CN 1997-105154	19970703
	CN 1057112	B	20001004		
PRAI	CN 1997-105154		19970703		

AB The combustion improvers comprise boron soil 25-40, CaC₂ 6-20, limestone 4-12, slags from tailings of iron ore flotation 10-20, MnO₂ 3-10, slags from K₂Cr₂O₇ prodn. 3-8, slags from Na₂Cr₂O₇ prodn. 1-8, bauxite 4-6, NaOH

STN Columbus

1-2, Na₂CO₃ 1-3, NaNO₃ 2-3, NaCl 1-3, and plant or wood chips 4-20%. The additives prevent soot formation and noxious emissions during combustion of various kinds of coal.

ST coal combustion improver limestone manganese dioxide; calcium carbide bauxite coal combustion improver; permanganate prodn slag coal combustion improver

IT Soils
(boron rich in; combustion improvers for various coals)

IT Bauxite
RL: MOA (Modifier or additive use); USES (Uses)
(combustion improvers for various coals)

IT Fuel **briquets**
(combustion improvers for various kinds of coal)

IT Coal, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(combustion improvers for various kinds of coal)

IT Iron ores, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(slags from tailings of flotation of; combustion improvers for various coals)

IT 75-20-7, Calcium carbide 497-19-8, Sodium carbonate, uses 1310-73-2, Sodium hydroxide, uses 1313-13-9, Manganese dioxide, uses 7631-99-4, Sodium nitrate, uses 7647-14-5, Sodium chloride, uses
RL: MOA (Modifier or additive use); USES (Uses)
(combustion improvers for various coals)

IT 7722-64-7P, Potassium permanganate 10101-50-5P, Sodium permanganate
RL: IMF (Industrial manufacture); PREP (Preparation)
(slags from prodn. of; combustion improvers for various coals)

IT 7440-42-8, Boron, uses
RL: MOA (Modifier or additive use); USES (Uses)
(soils contg.; combustion improvers for various coals)

L4 ANSWER 28 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1997:238263 CAPLUS

DN 126:227542

TI Carbonaceous combustible material

IN Jabrzemski, Krzysztof; Nawara, Tomasz Zbigniew

PA Duffco (Pty) Ltd., S. Afr.

SO S. African, 28 pp.
CODEN: SFXXAB

DT Patent

LA English

IC ICM C10L

CC 51-24 (Fossil Fuels, Derivatives, and Related Products)
Section cross-reference(s): 43, 50, 52

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	ZA 9405866	A	19960129	ZA 1994-5866	19940805
	GB 2306502	A1	19970507	GB 1995-21693	19951023
	CA 2161398	AA	19970426	CA 1995-2161398	19951025
PRAI	ZA 1993-5820		19930811		
	ZA 1994-5866		19940805		

AB A **briquet** incorporating oxidizing material is described, where the carbonaceous material is treated with an oxidizing acid to have an igniting layer with an oxidizing material so that once the igniting layer has burnt, the rest of the carbonaceous material will be ignited and

STN Columbus

continue to burn.

ST carbonaceous combustible material igniting layer; **briquet** manuf igniting combustible layer oxidizer

IT Clays, uses
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (binders; in carbonaceous combustible material with igniting layer contg. oxidizer)

IT Oxidizing agents
 (carbonaceous combustible material with igniting layer contg.)

IT Fuel **briquets**
 (carbonaceous combustible material with igniting layer contg. oxidizer)

IT Chlorates
 Chromates
 Manganates
Nitrates, uses
 Nitrites
 Perchlorates
 Permanganates
 Peroxides, uses
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (carbonaceous combustible material with igniting layer contg. oxidizer)

IT Chromates
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (dichromates; carbonaceous combustible material with igniting layer contg. oxidizer)

IT Coke
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dust; carbonaceous combustible material with igniting layer contg. oxidizer)

IT Anthracite
Charcoal
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dust; in carbonaceous combustible material with igniting layer contg. oxidizer)

IT Coal dust
 Sawdust
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (in carbonaceous combustible material with igniting layer contg. oxidizer)

IT Halogen compounds
 Halogen compounds
 Per compounds
 Per compounds
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (perbromates; carbonaceous combustible material with igniting layer contg. oxidizer)

IT 8061-52-7, **Calcium** lignosulfonate 9005-25-8, Starch, uses
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (binder; carbonaceous combustible material with igniting layer contg. oxidizer)

IT 1344-09-8, **Sodium** silicate
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (binder; in carbonaceous combustible material with igniting layer contg. oxidizer)

IT 7631-99-4, **Sodium nitrate**, uses 7757-79-1,
Potassium nitrate, uses 9004-70-0, Nitrocellulose

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10124-37-5, **Calcium nitrate**
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses)
 (carbonaceous combustible material with igniting layer contg. oxidizer)

IT 7697-37-2, Nitric acid, uses
 RL: MOA (Modifier or additive use); NUU (Other use, unclassified); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
 (carbonaceous combustible material with igniting layer contg. oxidizer)

L4 ANSWER 30 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
Full Text
 AN 1995:997999 CAPLUS
 DN 124:92415
 TI Coal **briquets** synergist and **briquets** contained synergist and their manufacturing method
 IN Shen, Changjiang
 PA Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 IC ICM C10L009-10
 CC 51-17 (Fossil Fuels, Derivatives, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1106059	A	19950802	CN 1994-114947	19940819
PRAI	CN 1994-114947		19940819		

AB Synergists for coal **briquets** contain auxiliary oxidizing agent (e.g., NaNO₃, KNO₃, KMnO₄), purifying agent (activated light **calcium** carbonate, CaCO₃, FeO), catalyst (MnO₂), and additive (NaCl).
 ST coal **briquet** synergist additive compn
 IT Slags
 (coal **briquets** contg.)

IT Fuel **briquets**
 (coal; synergists for)

IT Coal
 RL: NUU (Other use, unclassified); USES (Uses)
 (anthracite, coal **briquets** contg.)

IT Clays, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (refractory, binders contg.; coal **briquets** contg.)

IT 7647-14-5, **Sodium** chloride, uses 14807-96-6, Talc, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (additive; coal **briquets** synergists contg.)

IT 1309-48-4, Magnesium oxide, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (binders contg.; coal **briquets** contg.)

IT 1344-09-8, **Sodium** silicate
 RL: MOA (Modifier or additive use); USES (Uses)
 (binders; coal **briquets** contg.)

IT 1313-13-9, Manganese dioxide, uses
 RL: CAT (Catalyst use); MOA (Modifier or additive use); USES (Uses)
 (catalyst; coal **briquets** synergists contg.)

IT 7447-40-7, **Potassium** chloride, uses 7631-99-4, **Sodium** nitrate, uses 7722-64-7, **Potassium** permanganate
 7757-79-1, **Potassium** nitrate, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (oxidizing agent aid; coal **briquets** synergists contg.)

IT 471-34-1, **Calcium** carbonate, uses 1305-78-8, **Calcium** oxide, uses 1309-37-1, Ferric oxide, uses 1310-73-2, **Sodium** hydroxide, uses 1345-25-1, Ferrous oxide, uses

STN Columbus

RL: MOA (Modifier or additive use); USES (Uses)
(purifying agent; coal **briquets** synergists contg.)

L4 ANSWER 42 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
Full Text
AN 1988:440522 CAPLUS
DN 109:40522
TI Characteristics of the combustion and degradation of heterogeneous lignite mixtures with **nitrates**
AU Glazkova, A. P.; Terebilin, A. V.; Kazarova, Yu. A.
CS Moscow, USSR
SO Fizika Goreniya i Vzryva (1988), 24(2), 44-50
CODEN: FGVZA7; ISSN: 0430-6228
DT Journal
LA Russian
CC 51-18 (Fossil Fuels, Derivatives, and Related Products)
Section cross-reference(s): 67
AB The catalytic activity of a series of **nitrates** in lignite combustion was in the order $\text{NaNO}_3 > \text{KNO}_3 > \text{Ba}(\text{NO}_3)_2 > \text{NH}_4\text{NO}_3 > \text{Ca}(\text{NO}_3)_2$. NaNO_3 , KNO_3 , and NH_4NO_3 are also active in **charcoal** and sawdust combustion, but the corresponding combustion rates are different than those for lignite. These **nitrates** also catalyze the thermal decompn. of the lignite, **charcoal**, and sawdust.
ST lignite combustion metal **nitrate** catalyst; **charcoal** combustion metal **nitrate** catalyst; sawdust combustion metal **nitrate** catalyst; thermal decompn **charcoal** sawdust
IT Combustion catalysts
Thermal decomposition catalysts
(metal and ammonium **nitrates**, for lignite and **charcoal** and sawdust)
IT Sawdust
Charcoal
RL: USES (Uses)
(thermal decompn. and combustion of, catalysts for, **nitrate** salts as)
IT 6484-52-2, Ammonium **nitrate**, uses and miscellaneous 7631-99-4, Sodium **nitrate**, uses and miscellaneous 7697-37-2D, alkali and alk. earth metal salts 7757-79-1, Potassium **nitrate**, uses and miscellaneous 10022-31-8, Barium **nitrate** 10124-37-5, Calcium **nitrate**
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for combustion and thermal decompn., of lignite and **charcoal** and sawdust)

L4 ANSWER 44 OF 51 CAPLUS COPYRIGHT 2003 ACS on STN
Full Text
AN 1987:159454 CAPLUS
DN 106:159454
TI Inorganic clay-containing coal **briquettes** and methods for production thereof
IN Osuwan, Somchai; Bunyakiat, Kunchana
PA Alternative Fossil Fuels, Inc., USA
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C10L005-12
ICS C10L009-02
CC 51-24 (Fossil Fuels, Derivatives, and Related Products)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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STN Columbus

PI WO 8700855 A1 19870212 WO 1986-US1617 19860804
W: AU, BR, JP
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
AU 8662261 A1 19870305 AU 1986-62261 19860804
EP 231360 A1 19870812 EP 1986-905086 19860804
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
PRAI US 1985-763942 19850808
US 1986-860187 19860506
WO 1986-US1617 19860804
AB Non-pyrolyzed coal **briquets** contg. inorg. clay as a binder are manufd.
by contacting sized coal fines with inorg. clay to form a blended mixt.,
contacting with water so that the moisture content is sufficient to form a
briquettable mixt., compressing the resulting mixt. at ambient temp. and
appropriate pressure to form **briquets**, and drying until the moisture
content is at equil. with the atm. Thus, a Thailand lignite coal (contg.
moisture 12.05, ash 25.18, and S 1.02%, 3/8 in. to 100 mesh particle size)
was mixed with 10.4% kaolinite clay, hydrated CaO, and water to generate
>30 wt.% moisture content, and the resulting mixt. was compressed and
dried; the crushing strength of the coal **briquets** was 22.5 kg/cm2.
ST coal **briquet** clay binder; lignite **briquetting** clay kaolinite binder;
calcium oxide coal **briquetting** clay
IT Bentonite, uses and miscellaneous
RL: USES (Uses)
(bindings, for manuf. of coal **briquets**)
IT Fuel **briquets**
(coal or lignite, manuf. of, inorg. clay binders for)
IT 1318-11-2, Anauxite 1318-74-7, Kaolinite, uses and miscellaneous
1318-93-0, Montmorillonite, uses and miscellaneous 12068-50-7,
Halloysite 12174-11-7, Attapulgit 12279-65-1
RL: USES (Uses)
(bindings, for manuf. of coal **briquets**)
IT 471-34-1, Calcium carbonate, uses and miscellaneous 1305-78-8,
Calcium oxide, uses and miscellaneous
RL: USES (Uses)
(desulfurizing agent, with clay binders, for manuf. of non-pyrolyzed
coal **briquets**)
IT 7631-99-4, Sodium nitrate, uses and miscellaneous
7632-00-0, Sodium nitrite 7757-79-1, Potassium
nitrate, uses and miscellaneous 7758-09-0, Potassium
nitrite
RL: USES (Uses)
(oxidizer, with clay binders, for manuf. of non-pyrolyzed coal
briquets)

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	27.61	63.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-6.51	-6.51

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LAST RELOADED: Sep 5, 2003 (20030905/UP).

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.24

63.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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